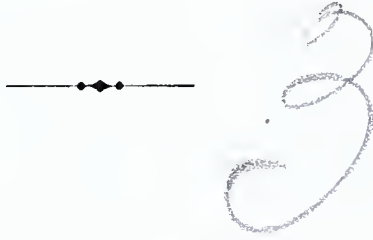


YALE COLLEGE IN 1875.



SOME STATEMENTS RESPECTING THE LATE PROGRESS
AND PRESENT CONDITION OF THE VARIOUS
DEPARTMENTS OF THE UNIVERSITY,
FOR THE INFORMATION OF ITS
GRADUATES, FRIENDS AND
BENEFACTORS.

BY THE EXECUTIVE COMMITTEE OF THE SOCIETY OF THE ALUMNI.

JUNE 1, 1875.

PRINTED BY TUTTLE, MOREHOUSE & TAYLOR,
221 State Street, New Haven.

YALE COLLEGE IN 1875.

THE ACADEMICAL DEPARTMENT.

During the past year the new chapel has been nearly finished, so that it may be expected to be ready for occupation in September next. The unrestricted bequest of \$50,000 which came to the College last summer upon the death of Joseph Battell, Esq., to whose liberality was due the largest previous contribution to the chapel fund, has been, with the approval of his surviving relatives, devoted to the completion and equipment of the building. The new grading of the ground around the Farnam building has made necessary a change in the basement, which is now faced with blue stone on the west front. To accommodate all the divisions of the classes this year, it has been necessary to use as recitation rooms the halls formerly occupied by the Linonian and Brothers-in-Unity Societies in the second story of Alumni Hall. One has been occupied by the Senior, the other by the Sophomore Class. The middle room on the same floor, the old Calliopean Hall, is still filled by Prof. Marsh's collections, which will be transferred to the Peabody Museum when it is completed. The College needs at present, more urgently perhaps than anything else, a building for recitation and lecture rooms on a proper scale. Those in the Athenæum are very good, but besides these four there are only two lecture rooms and two recitation rooms that are of sufficient size. It is no exaggeration to say that the health both of officers and of students suffers from the constant use of some of our rooms. In the old Laboratory building, under the charge of Prof. A. W. Wright, an attic room has been fitted up with all requirements (black floor, walls, and ceiling, window slides, &c.) for optical experiments, as a means of investigation, not of instruction.

Mr. Henry A. Beers, of the Class of 1869, has been elected Assistant Professor of English Literature, after a service of three years as tutor in that department. The distribution of the Freshman Class into six divisions instead of four, has been tried during the past year with satisfactory results. It is to be hoped that the College will be able to afford, hereafter, to keep up this increased number of its instructors whenever the size of the class makes it desirable. In the Junior year a new study has been introduced, morphology, or comparative zoology, having been taught by Mr. J. K. Thacher. By vote of the Corporation, passed a year ago, the study of French and German is to be confined to Junior year, and each student is to choose between the two languages, as it will not ordinarily be possible for him to attend the exercises in both. This choice is to be made upon entering College, as an examination in the elements of one or the other is added to the requirements for admission. Professor Coe has spent the greater part of the year in Paris, pursuing the study of the early forms of the French language with the leading scholars in that department, and will offer instruction in it to graduate students. The charge for tuition to undergraduate students has been raised, so that now, including all incidentals, which were formerly separate charges, it is \$140.

The degree of Master of Arts will hereafter be conferred, not as heretofore in course, but upon Bachelors of Arts of this College, of two years' standing and upwards, who shall give to the Faculty evidence of having made satisfactory progress in liberal studies since receiving their first degree. It is also decided by the Corporation not to confer hereafter "*ad eundem*" degrees.

The school for graduate instruction continues with about its former numbers. There have been this year twenty-nine students, distributed in the following classes: in History thirteen, in Political Science twelve, in Sanskrit and General Philology nine, in English Literature seven, in Greek seven, in Hebrew six, in Mental Science four, in Mathematics three, in Latin two, in Gothic two.

SHEFFIELD SCIENTIFIC SCHOOL.

No change of any kind has taken place in the internal arrangements of the Scientific School, with the exception that the facilities for the study of Chemistry have been slightly increased by the fitting up of room No. 13 in Sheffield Hall as a physiological laboratory. On account of the small size of the apartment the accommodations are entirely inadequate: at the same time, inadequate as they are, they have been of considerable service, and have supplied to some extent a need long felt.

A most valuable gift, received during the year, is a powerful electro-magnet with auxiliary apparatus, which has been presented to the School by its manufacturer, William Wallace, of Ansonia. The lifting force of this magnet, which is one of the largest in the country, is estimated at eleven tons.

A gift of \$400 has been received from the Class of 1872 through its Secretary, Mr. C. L. Johnson. The special library of the School has also been the recipient of various gifts, among which may be mentioned thirteen volumes of fac-similes of the medals and other works of art preserved in Rome, presented by Mr. Sheffield: five volumes, with atlas, of Karsten's *Metallurgie*, presented by Mr. H. Holland of Westfield, Mass; and the various publications of the Engineer department of the United States army.

The past year has witnessed the presence of the largest number of students ever in attendance upon the School (249). While it is a most gratifying proof of the growing popularity of this department, the satisfaction felt at this increase in numbers is attended with some drawbacks of no slight importance. The additional teaching force required for the constantly increasing number of students cannot be paid for from the income received from the tuition alone; and in direct consequence of it, in spite of the most rigorous economy, the annual expense has for the past two years slightly exceeded the annual income. Aid is pressingly needed from the friends of scientific education in order to maintain the present standard of efficiency and to provide the additional teaching force made necessary by the growth of the School.

THEOLOGICAL DEPARTMENT.

(YALE THEOLOGICAL SEMINARY.)

The new building for the use of this Department, which was referred to in the Annual Statement for 1874, was completed and furnished in September last, and it has been occupied by students during the year. The Seminary has now abundant accommodations in its two buildings (East and West Divinity Halls) for one hundred and fifty students, and when the western Hall is connected with the Marquand Chapel, as it is hoped that it may be at some time in the early future, the arrangements of the buildings for convenience will be as perfect as could be desired. Funds for the erection of the intermediate building or corridor are needed. The subscriptions for the West Divinity Hall were completed in July, 1873, by the action of the Professors, who made themselves responsible for the sum of \$7,000. Special acknowledgments are due to Mr. Daniel Hand, of New Haven, who generously came forward and relieved the officers of the Department from this burden, and who during the past year has paid this \$7,000 into the treasury of the institution.

The Lowell Mason Library of Church Music has been placed in a large room in West Divinity Hall, which was prepared for the purpose by Mr. Atwater Treat, one of the builders, who at his own expense furnished the necessary book-cases and a beautiful inlaid floor. The books were classified and arranged by Mr. Joel S. Smith of New Haven, who kindly gave his services for this purpose. The Library was finally opened on the evening of Tuesday, May 11th. A discourse on the life and work of Dr. Lowell Mason was delivered by Rev. George B. Bacon, D.D., of Orange Valley, N. J., and a musical entertainment was given by Dr. William Mason. The family of Dr. Lowell Mason have added to their generous gift of the Library a cabinet organ, and a bust of Dr. Mason in marble. This library will be of great service to the Seminary.

The Seminary has received during the year a gift of \$2,000 from Mr. Benjamin DeForest, of Watertown, to whom thanks are here expressed, as well as to a number of other friends of

the institution who have made liberal contributions for the aid of students, and for other purposes. It has, also, received the sum of \$3,500 from a policy of life insurance, which was given a few years since by the late Gov. Buckingham, who was one of the most constant, efficient, and highly valued benefactors of the Seminary. A legacy of the late Miss Elizabeth B. DeForest, of New Haven, has added \$250 to the beneficiary funds.

The number of students connected with the Department has been one hundred and nine, of whom seven were Resident Licentiates, thirty-five were in the Senior Class, thirty-four in the Middle Class, and thirty-three in the Junior Class. There have been among the students representatives of thirty-four colleges.

Attention is again called to the great importance of securing for the Department an increase of funds for the aid of students who are in need of assistance and, also, larger endowments for the purpose of instruction.

LAW DEPARTMENT.

The number of students connected with the Law School for the past year has been sixty-five. Dr. Francis Bacon has resigned his position as Lecturer on Medical Jurisprudence, and Dr. George B. Farnam has been appointed to fill the vacancy. Mr. D. D. Baldwin also resigned his place as Librarian, during the autumn, in order to accept a Professorship in a College in the Sandwich Islands, and John A. Robinson, M.D., LL.B. (Class of 1871), was chosen as his successor.

Two additional prizes have been established, one of \$100, by Hon. J. M. Townsend, of East Haven, for the best oration, pronounced at the annual Commencement of the Department, by a member of the graduating class; and one of \$50, by Frederick H. Betts, Esq., of New York, to be awarded to that member of the Junior Class who receives the highest average marks at the Junior Annual Examination.

Mr. Theodore S. Woolsey has accepted the position of Instructor in International Law, and will hereafter teach the Junior Class in that branch. President Woolsey will continue to lecture, upon the same subject, to the Senior Class.

The Library has received considerable additions during the past year, chiefly from purchases made out of the income of the permanent fund, founded by Hon. James E. English. Valuable sets have also been received from Hon. Benjamin D. Silliman, LL.D., of Brooklyn, Hon. Horatio G. Jones, of Pennsylvania, and others.

The collection of the portraits of the former instructors in the School, which are hung in the Lecture-room, has been increased by the addition of one of Hon. Henry Dutton, LL.D., presented by Hon. George H. Watrous, of New Haven (Class of 1855); one of Hon. William L. Storrs, LL.D.; one of Hon. David Daggett, LL.D., presented by Rev. O. E. Daggett, D.D., of New London, and D. L. Daggett, M.D., of New Haven; and one of President Woolsey, presented by Hon. Morrison R. Waite, LL.D.

The requirements for admission to the Department have been materially changed. Hereafter all applicants for admission to the Junior Class must be at least eighteen years of age, and, after Dec. 24th, 1875, no one who has not taken a degree from some collegiate institution will be admitted to that class until he has passed a satisfactory examination in the following branches: English Grammar (including Composition and Orthography); History of England; first book of Blackstone's Commentaries; History of the United States; and the text book of the Constitution of the United States.

To entitle a person to admission to advanced standing as a member of the Senior Class, he must be at least nineteen years of age; must have studied Law under a competent instructor elsewhere for at least a year; must pass such an examination as is required for those entering the Senior Class in the regular course, and also, after Dec. 24th, 1875, if not a college graduate, such an examination as will be required of applicants for admission to the Junior Class.

Special students, not candidates for a degree, will be admitted to any of the exercises of the School, as heretofore, without any examination.

A satisfactory thesis, on some topic of legal or political science, will hereafter be required from each member of the graduating class, as a condition of his receiving the bachelor's degree.

To encourage the students to remain in the School beyond the *minimum* term required for graduation, the tuition charges, during their further attendance, have been reduced one-half. Arrangements are also contemplated for organizing a further course of study for bachelors of laws who desire to remain as resident graduates, with a view to receiving a higher degree.

The students connected with the public debating society of the School, known as the *Yale Kent Club*, organized, during the Spring, a course of lectures, which were delivered weekly by different gentlemen, in the Law School Lecture-room, before the Club and a large number of invited guests. The lectures were by William L. Kingsley, Esq. on *Cavour* and *Mazzini*; Prof. F. A. Walker, on *Political Reform*; Prof. T. R. Lounsbury, on *the Elizabethan Theatre as a Social and Political Force*; Prof. W. G. Sumner, on *the Political Character of Andrew Jackson*; and Prof. Wayland, on *the House of Commons*.

A pamphlet edition of the U. S. Constitution, with references to judicial decisions, prepared by Prof. Baldwin, for the use of the Senior Class, in connection with his lectures on the Constitution, was published during the Spring Term.

The anniversary exercises of the Law School will hereafter occupy Wednesday afternoon of Commencement week, and will be held at the Center Church. The annual oration, at the close of the prize speaking, will be delivered, this year, by Hon. Daniel H. Chamberlain, LL.D., Governor of South Carolina.

The Law School has now an excellent working library, and apartments which, for elegance, convenience of arrangement, and proximity to the Courts, are probably superior to those of any similar institution in the country. Its course of study, also, in embracing General and Comparative Jurisprudence, Forensic Composition and Elocution, Roman Law, the Law of Nations, &c., is more comprehensive than could be successfully attempted except in connection with a large university. The work of instruction is, however, carried on by the Professors and Lecturers, who are engaged in it, at a considerable personal sacrifice, from the want of any general funds, or permanent endowments, except those applicable to the library or to special prizes.

THE MEDICAL DEPARTMENT.

The improved and more complete schedule of instruction, the outlines of which the Faculty formally submitted to the Corporation for its approval in 1871, is, in most of its details, already in operation. The second term, during which the instruction is given by recitations and lectures, has become a part of the regular collegiate year ; and is regarded by teachers and students as a most important advance, the great practical value of which becomes each year more apparent. Thus, the course of instruction nearly corresponds, in duration, with that in the Academical Department.

Heretofore, examinations have been necessarily conducted in a hurried and unsatisfactory manner *viva voce* ; and the fact that this method had been followed until quite recently by all other Medical Colleges, lessened in no degree the many objections made against it.

This year, however, another of the proposed changes in the method of instruction has been adopted in the mode of examinations, which are now conducted by written theses, in the presence of a member of the Faculty, upon questions propounded at the time.

In each of the departments the exercise continues for three hours ; and the final decision, with regard to a candidate for a degree, is made, as formerly, by vote of an Examining Board, consisting of the Faculty and an equal number of physicians selected by the Connecticut Medical Society—thus in effect practically separating the offices of teacher and examiner, and affording an additional safeguard against the graduation of unqualified persons.

The value and importance of these new features in the mode of teaching medicine are generally admitted by the profession, and by many Medical Colleges, some of which will doubtless adopt them.

The full benefits, however, of these important changes cannot be realized until one other advanced position shall have been taken.

Preliminary examinations of candidates for admission to the Medical Department would have the same effect in promoting

and maintaining a higher grade of scholarship as they do in the Academic and Scientific Departments. But no Medical College can establish at its portals this barrier to indiscriminate admission, without suffering a greater or less diminution of its classes; and of course it could not be sustained without adequate endowments.

During the year, the class has been larger than for some years previously—numbering over fifty—and the earnestness and enthusiasm with which it has accomplished the increasing amount of hard work demanded of it, have been exceedingly gratifying.

The most pressing and immediate necessity of the Department is for a larger and more completely appointed laboratory. The present one, fitted and furnished ten years ago by the generous liberality of a member of its faculty, has been found to be entirely too small for the increasing number of students. It is hoped that some of the benefactions to the University may take this direction, and supply the means of establishing for the Department a suitable Chemical and Physiological Laboratory, the land for which has already been secured, and the plans are being prepared.

The facilities for clinical instruction afforded by the Hospital, containing a hundred and fifty beds, and the Surgical and Medical Clinics, regularly held at the College, are large and increasing.

THE TREASURY.

The following is an abstract of the Treasurer's report for the financial year from May 1, 1874, to April 30, 1875.

I. FUNDS OF THE ACADEMICAL DEPARTMENT.

1. *Endowed Professorship.*

CHITTENDEN Professorship of Divinity,.....	\$50,000.00
STREET Professorship of Modern Languages,.....	31,390.47
CLARK Professorship of Moral Philosophy and Metaphysics,.....	20,000.00
MUNSON Professorship of Natural Philosophy and Astronomy,---	15,000.00
SILLIMAN Professorship of Geology and Mineralogy,.....	10,486.25
KENT Professorship of Law,	6,500.00
DUNHAM Professorship,	22,623.49
Professorship of History,.....	15,000.00
	<hr/>
	\$171,000.21

2. *Funds, the income of which is payable as Prizes or Scholarships.*
 Family Scholarships, income payable to members of certain families, \$24,167.51
 Beneficiary Funds, for aid of deserving students of small means, - 52,766.12
 Undergraduate Prize and Scholarship Funds, income given in
 reward of excellence, ----- 20,597.80
 Graduate Scholarship Funds, income given in reward of excellence,
 payable after graduation,----- 6,800.00
\$106,331.43
3. *Fellowship Funds.*
 DOUGLAS Fellowship Fund,----- \$6,000.00
4. *Funds for the increase of the Library,*----- \$40,533.86
5. *Miscellaneous Funds.*
 For musical instruction,----- \$10,000.00
 For religious objects, - ----- 500.00
6. *Accumulating Funds, the interest of which is not available at present, but is added
 to the principal.*
 Ellsworth Fund, ----- \$37,971.32
 Macy Graduate Scholarship Fund,----- 6,627.18
\$44,598.50
7. *General Fund, the income of which may be used for any purpose, ---*\$304,322.75
 From which deduct investments in *unproductive* real estate,----- 86,239.48
\$218,083.27
 Productive portion of the General Fund,-----

II. FUNDS OF THE SHEFFIELD SCIENTIFIC SCHOOL.

General Fund, -----	\$131,823.75
Trust Fund, held by the State of Connecticut, the income of which is received semi-annually, -----	135,000.00
Library Fund, -----	12,000.00
Benner Fund, toward the foundation of an Agricultural Museum, -	300.00
Scholarship Fund,-----	1,000.00
	\$280,123.75

III. UNIVERSITY FUNDS.

WOOLSEY Fund,-----	\$100,000.00
Professorship of Sanskrit and Comparative Philology, -----	50,000.00
Professorship of Botany, -----	24,000.00
BRONSON Fund, -----	5,000.00
SALTER Fund, -----	3,700.00

IV. FUNDS OF THE THEOLOGICAL DEPARTMENT.

1. <i>Endowed Professorships.</i>	
DWIGHT Professorship of Didactic Theology.....	\$27,049.45
Professorship of the Pastoral Charge,.....	21,906.37
Professorship of Sacred Literature,	13,819.67
HOLMES Professorship of Hebrew (\$12,000 now productive), ----	25,000.00
LYMAN BEECHER Lectureship,	10,000.00
	<hr/>
	\$97,775.49
2. <i>Scholarship Fund, for aid of Students,</i>	\$38,219.00
3. <i>Library Fund,.....</i>	\$500.00
4. <i>TITUS STREET Professorship Fund, income not now available,</i>	\$47,865.00
5. <i>General Fund, the income of which may be used for any purpose of the Department,</i>	\$123,549.75

V. FUNDS OF THE MEDICAL DEPARTMENT.

General Fund,.....	\$21,332.57
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VI. ART SCHOOL.

The Funds amount to.....	\$7,694.67
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A general view of income and expenditure of the Academic Department for the past year is given in the subjoined table. The fees for the support of the Reading Room and Students' Library, which the Treasurer has collected and paid over, are omitted from this statement; and so is the interest on the accumulating funds, as this is not available for the current uses of the College.

Income from term-bills of students,.....	\$68,008.37
general fund,.....	14,590.67
professorship funds,.....	9,328.88
scholarship and gratuity funds,.....	13,744.88
Library fund,.....	2,444.58
Reading Room,	911.36
Gymnasium,	689.75
rents,.....	3,190.86
fellowship funds,.....	600.00
Woolsey fund,.....	6,612.60
other sources,.....	2,428.33
	<hr/>
Total,.....	\$122,550.28

Expended for instruction in Academical Department, viz :

salaries of President and Professors,.....	\$45,842.50
salaries of Tutors,.....	9,935.00
special outlays,.....	1,700.00
	<u>\$57,477.50</u>
salaries of Treasurer, Librarian, Registrar, etc.,.....	10,700.00
gratuitous aid, scholarships and prizes,	13,073.87
natural history, -	2,600.20
Chemical Laboratory,	443.34
Natural Philosophy,	201.25
maintaining and increasing Library,.....	5,313.06
music in Chapel,	821.90
Commencement,.....	1,885.59
Physics,	100.00
printing,	1,347.64
Reading Room,	1,596.81
Gymnasium,.....	1,741.54
fuel and light (for public and private rooms),.....	9,445.96
repairs,	11,065.97
Engineer,	1,023.42
sweeping and cleaning,	3,798.13
care of College square,	960.05
fellowship,	601.00
other purposes,	1,876.33
	<u>\$126,073.56</u>
Total,.....	\$126,073.56

It will be seen that the expenditures have exceeded the income by \$3,523.28. The balance is now against the income account.

Several donations of money, received during the year, will be found properly acknowledged under other headings in this pamphlet.

THE LIBRARY.

The College Library has received during the past year an increase of 4,425 volumes and 2,250 pamphlets, the Linonian and Brothers Library an increase of 700 volumes. This is much beyond our usual rate of growth and is due partly to the increased income which the Library now enjoys, the John J. Phelps fund temporarily assigned to it yielding \$3,500, and partly to unusually large gifts, amounting to no less than 2,375 volumes and 2,100 pamphlets. Of these gifts, which have been as exceptional in value as in number, some of the more import-

ant are here specially mentioned. A fuller list of donors will be found in the Appendix.

Mr. Henry Farnam has been this year, as he was the last, one of our chief benefactors, having purchased for us complete series of Abbé Migne's *Patrologie Latine* and *Patrologie Grecque*, together 386 volumes, large 8vo, newly bound in half-morocco.

To Hon. James E. English we are indebted for another large and most valuable series, the *British Parliamentary Papers* complete for the years 1865 to 1873 inclusive, in all 742 volumes, mostly of folio size, in half-vellum binding.

Prof. James D. Dana has given 260 volumes, chiefly scientific works, including such important series as the publications of the Geological Survey of India, 32 volumes; publications of the Palæontographical Society, 10 volumes, 4to; *Bulletin de la Société Impériale des Naturalistes de Moscou*, 55 volumes; *Forhandlinger i Videnskabs-Selskabet i Christiania*, 12 volumes; *Kongliga Svenska Fregalten Eugénies Resa omkring Jorden*, 12 parts, 4to; *Reise der österreichischen Fregatte Novara um die Erde*, 7 parts, 4to; *Archives Néerlandaises des Sciences Exactes et Naturelles*, 8 volumes.

Rev. Edgar L. Heermance has given five folio volumes, to be completed by a sixth, of the Vatican MS. of the Greek Scriptures, now publishing at Rome under the editorship of Vercellone and Cozza.

A valuable series of the works of the late Prof. Agassiz, 22 volumes, has been presented by his son, Mr. Alexander Agassiz.

Messrs. R. L. & A. Stuart have given the Ante-Nicene Christian Library, 24 volumes.

Mr. Henry Holt, to whom we have twice before made similar acknowledgments, has sent us of his current publications 23 volumes.

Señor Don Diego Barros Arana has presented, through Rev. David Trumbull, D.D., of Valparaiso, to whom we are likewise indebted for valuable favors, 10 volumes of historical works.

We have also received from Mr. J. H. Benham, 38 recent directories of various cities; from Mr. C. C. Chatfield, duplicate files of the *College Courant* and, in addition, 21 volumes and

517 pamphlets; from Miss Lucretia Deming, 155 volumes of newspapers and English reviews; from Pres. D. C. Gilman, Scammons's Marine Mammals of the Northwestern Coast of North America; from Mr. Levi Holbrook, 37 volumes (bound in 26) of *Niles' Weekly Register*; from Mr. A. Merwin, Riggs' Grammar and Dictionary of the Dakota Language, bound in full morocco, and four other volumes; from Mr. George Rosenthal, of Amsterdam, Catalog der Hebraica und Judaica aus der L. Rosenthal'schen Bibliothek, 2 volumes, 8vo, privately printed; from Prof. F. A. Walker, a copy of his Statistical Atlas of the United States, and 82 additional volumes; from Prof. Francis Wharton, the last editions of his Criminal Law and Law of Homicide, 4 volumes; from Pres. Woolsey, 53 volumes, including a set of Annual Reports of the Smithsonian Institution, 19 volumes; from Hon. Elizur Wright, a copy of his Savings Bank Life Insurance with Illustrative Tables, and other volumes.

To the various departments of the U. S. Government, and to the Smithsonian Institution, we are also indebted for many favors.

In addition to the gifts reported above, the Library Fund has received an increase of \$1,000, the donor for the present withholding his name.

A marble bust of Mr. Henry Farnam has also been placed in the Library.

Rev. Oliver Crane, D.D., has presented to the Numismatic Collection 483 ancient coins. Other gifts to this Collection are acknowledged in the Appendix.

THE MUSEUM OF NATURAL HISTORY.

Zoological Collections.—A. E. Verrill, Curator; S. F. Clark, Assistant.

The most numerous additions to the Zoological department are the extensive collections of marine invertebrates made in connection with the explorations under Prof. S. F. Baird, U. S. Commissioner of Fish and Fisheries. During the past summer the headquarters of the Commission were established at Noank, Conn., and the investigation of the marine invertebrate fauna was put under the general charge of the curator,

but a large number of other naturalists aided, more or less, in this work; among them Mr. S. I. Smith, Mr. Oscar Harger, and Mr. S. F. Clark, of this School; Prof. A. Hyatt and Mr. Robert Rathburn, of Boston; Dr. Joseph Leidy, of Philadelphia; Dr. E. Bessels, of Washington. Mr. R. Y. Brown, of the University of Wisconsin; Mr. G. R. Kleeberger, Mr. J. C. Olmstead, and Mr. F. M. Turnbull, students in this School, also took part in the work, and availed themselves of the facilities offered for the study of marine zoology and botany. Extensive dredgings were made by means of the U. S. Steamer "Bluelight," Commander L. C. Beardslee, in the waters of Long Island Sound; Fisher's Island Sound; Gardiner's Bay; Peconic Bays; Block Island Sound; and the deeper waters off Block Island and the eastern end of Long Island. This collection of invertebrata has been deposited in the North Sheffield Hall, to be examined and reported upon by the curator and Mr. S. I. Smith, when a complete series of the specimens will be given to the college museum. Much work has been done during the past year upon this and the previous collections of the same kind, made during 1872 and 1873. Mr. Smith, Mr. Clark, and Mr. Harger have aided the curator in this work.

In September, the Superintendent of the U. S. Coast Survey offered to Prof. Baird the use of the Coast Survey steamer Bache, Capt. Platt, for the purpose of continuing the dredgings in deep water off the coasts of Maine and New Hampshire. Dr. A. S. Packard, of Salem, Mass., was put in charge of this expedition, and he was assisted by Mr. C. Cooke, of Salem, and Mr. Robert Rathburn, of Boston. They obtained a valuable collection of the deep-water animals of the Gulf of Maine, which has also been sent to this School for examination and description. A preliminary report upon the results of the last named expedition has been published in the American Journal of Science by the curator. We have also received from the U. S. Fish Commission several large fishes taken near Noank, the skins of which have been mounted and put on exhibition. Among these are the drum-fish, the tarpum (*Megalops thrissoides*), and bill-fish (*Tetrapturus albidus*). These are rare species on the coast of New England.

A good collection of shells, corals, echinoderms, and crus-

tacea, from Florida and the Bahamas, was purchased of Dr. E. Palmer. A very valuable and useful collection of typical crustacea was obtained by exchange from the University of Christiania, through Dr. G. O. Sars. A small but valuable collection of typical Hydroids and Ophiurans was received from the Museum of Comparative Zoology, in exchange.

Mr. J. F. Whiteaves has sent a collection of invertebrates from the deep waters of the Gulf of St. Lawrence. Mr. J. H. Emerton has labelled most of our spiders, and has sent a considerable number of additional ones.

Professor Marsh has continued to make numerous and valuable additions to the osteological collection, as in previous years.

Professor Dana has given many valuable books to the zoological department of the museum.

Several works relating to the culture and fisheries of oysters were presented by Capt. G. H. Townsend.

Other donations, of less importance, have been received from a number of persons, and will be acknowledged on another occasion.

Geological Collections.—O. C. Marsh, Curator ; O. Harger, Assistant.

The additions to the Geological department of the Museum have been very large during the past year. In the West, twelve parties of collectors were employed by the curator during the summer and autumn months, and many thousand specimens of Cretaceous and Tertiary vertebrate fossils were thus obtained, among them many new to science. In October last, the curator organized an expedition to the Miocene "Bad Lands" south of the Black Hills, more especially to examine a remarkable fossil locality discovered a few months previously. The explorations were very successful, notwithstanding extremely cold weather (15° to 20° below zero), and the continued hostility of the Sioux Indians. The latter refused to allow the expedition to cross White River, but a reluctant consent was at last obtained. They afterwards stopped the party on the way to the "Bad Lands," attempted a night attack on their camp, and otherwise molested them. The fossil deposits

explored were mainly of Miocene age, and although quite limited in extent, proved to be rich beyond expectation. Nearly two tons of fossil bones were collected, most of them rare specimens, and many unknown to science. Among the more interesting remains found were several species of gigantic *Brontotheridæ*, nearly as large as Elephants. Successful explorations were made also in the Pliocene of the same region.

Among the important vertebrate fossils secured during the last year, and already described by the curator, are several forms of *Quadrupedia* from the Eocene and Miocene; a number of species of a new order (*Tilloodontia*) of Eocene Mammals; a new genus of *Brontotheridæ*; numerous Tertiary Mammals allied to the Horse; and the first horned Rhinoceroses discovered in this country.

One of the most interesting specimens added to the museum is a nearly complete skeleton of *Mastodon Americanus*, found by Mr. Andrew Mitchell, on his farm in Otisville, Orange County, New York. This skeleton belonged to a fully adult animal, and is in better preservation than any yet discovered in this country.

The Osteological collection of this department has been greatly increased during the year. Several hundred skeletons, especially of Mammals and Birds, have been added, representing many rare types. The most important acquisition in Osteology was a large collection of skeletons and skulls, purchased of Dr. H. W. Boyd of Chicago. Among these was a fine series of *Quadrupedia*, including Gorillas, Chimpanzees, and Orangs, and a Whale, over seventy feet in length, from the Pacific Coast.

Mr. G. B. Grinnell (class of 1870), Palæontologist of the Black Hills Expedition under Gen. Custer, and Mr. F. H. Hoadley (class of 1870) of New Haven, have rendered important service to the Geological department of the Museum, during the past year, especially in arranging and classifying the collections.

The new Peabody Museum Building is now in process of construction, and it is expected that during the next year all the collections of this Department will be placed in it, and be accessible.

THE SCHOOL OF THE FINE ARTS.

The Art School, during the past year, gave instruction to one hundred and thirty-three pupils—forty-two of whom were special art students (an increase of eleven above the report of last year) and ninety-one students of the Sheffield Scientific School.

A course of twenty lectures on Perspective was given to a class of twenty-seven pupils.

A public course of five lectures on the Arts of Design—Painting, Sculpture, and Architecture, was delivered in the School during the Fall Term.

A public course of twelve lectures on the History of Italian Painting was given during the Winter Term.

The summer exhibition of 1874, being the fifth annual loan exhibition, was remarkable for its excellence, and afforded opportunity for studying the works of some of the most prominent artists of the day. Very valuable contributions were obtained from the collections of Messrs. Jno. Taylor Johnston, Robt. L. Stuart, Marshall O. Roberts, Wm. Appleton, Charles Butler, J. A. Dean, and others, besides representative works contributed by members of the National Academy of Design. The expenses of the exhibition exceeded seventeen hundred dollars, and the receipts fell short of this amount. Notwithstanding this discouragement, the value and importance of these loan exhibitions, in connection with the object of the School, are such that they will be persisted in, with the hope of ultimately securing that hearty support to which they are entitled.

A gift of \$5,000 was received from a private source, for the purpose of providing the Art School with steam-heating apparatus. The contract was given to Messrs. H. B. Smith & Co., who accomplished the work in an efficient and thorough manner.

Two cellars for coal and ashes were also constructed between the rear of the Art School and High st., at a cost of \$840, by which means the building is freed from the annoyance of dust.

Through a private donation of \$600, and other smaller sums

received, a room has been provided with book-cases for the use of an Art Library. Further contributions, however, are needed to complete the furnishing of the room, and donations of books relating to the Fine Arts, Engravings, Autotypes, and Photographs from works of art, are solicited.

A cast of the antique statue of a Discobolos, by Naucydes, was purchased for the School by Prof. James D. Dana.

Casts from the Antinous of the Capitol (Rome) and the colossal bust of Lucius Verus were purchased by the School. Several smaller casts from the antique, and from nature, have also been added to the collection.

A gift from Mr. Samuel P. Avery, of two proof impressions of prints of John F. Kensett and Ashur B. Durand; also sixteen photographic reproductions of sketches by Ingres and Flaudrin, and nineteen photographs from the works of the Sculptor Rhinehart, a photograph from an antique bronze lately discovered at Rome, and 1 volume of plates—"Album Autographique, l'art a Paris in 1867," has been received.

Lanzi's "History of Painting in Italy," 5 vols.; "Da Vinci on Painting," 1 vol., rare; Elmes' "Dictionary of the Fine Arts," 1 vol.; Life of Mengs, 2 vols; Northcote's Memoirs of Sir Joshua Reynolds, 1 vol.; "Annals of the Fine Arts," 2 vols.; Life of West, 1 vol.; Cummings' Historical Annals of the N. A. D., 1 vol.; Goethe on Color, with notes by Eastlake, 1 vol.; British Painters, 3 vols.; Du Fresnoy on Painting, 1 vol.; Burnet's Hints on Portrait Painting, 1 vol.; Letters of Gessner, 1 vol.; Gilpin on Prints, 1 vol.; Landscer on Engraving, 1 vol.; Raphael's Cartoons, 1 vol., quarto, plates; School of Raphael, 1 folio vol., plates; "Principes du Dessin tires d'apres les Antiques Statues, &c., par Jean Volpato et Raphael Morghen," 1 large folio, plates—have been presented by Mr. N. Jocelyn. Duppa's "Life of Michael Angelo," 1 vol., quarto, illustrated, the gift of Mrs. N. Jocelyn. Four vols. "Napoleon's Egypt" (Elephant); Meme's "History of the Fine Arts," and "a Glossary of Architecture," have been received from Mrs. A. R. Street. Also 1 vol. containing seventeen plates of the fresco of the Last Judgment, by Michael Angelo, the gift of Dr. T. D. Woolsey. Two vols. engravings, "Raccolta de Monumenti, &c., del Museo Reali Borbonico," the gift of Mr.

R. S. Fellowes. Winklemann's "Ancient Art," 4 vols.; "History of Painting in Italy," Crowe & Cavalcaselle, 3 vols.; also by the same authors, "History of Painting in North Italy," 2 vols.; Lubke's "History of Art," 2 vols.; Kügler's "Hand-Book on Painting, Italian Schools, with notes by Eastlake," 2 vols.; Lubke's "History of Sculpture," 2 vols.; Phillimore's Translation of Lessing's "Laocoon," 1 vol.; and Vasari's Lives of the Painters, 5 vols.—the gift of J. F. Weir.

A handsome chandelier for the Art Library was the gift of Miss Leffingwell.

Seventy-nine of Braun's "autotypes" have been purchased, making the total number in the possession of the School about two hundred.

A further loan has been made to the School, by Mrs. A. C. Alden, of a Terra-cotta bust, life size; also eight relievos, by the Sculptor Bartholomew, illustrative of the history of Adam and Eve; one medieval relievo of the Virgin and Child, and an antique stone Cinerary-urn, from the Via Appia.

The annual course of instruction closed May 31st. Prof. Weir addressed the Art-students, reviewing the work accomplished by the School, and setting forth the proposed extended course to be provided next year.

In elosing this brief review of the past year, it is well to reiterate the objects of the School, which are these:

- 1st. The education of artists in all branches of the profession.
- 2d. Furnishing artists and amateurs an acquaintance with all branches of learning relating to the practice, theory, or history of art.

The most urgent wants are, an art library, and a fund for its support; representative modern works of art for the general collection; means by which the collection of plastic models for instruction may be increased; a fund for the establishment of a "life-school," and a general fund to be applied as the growing needs of the School require.

The Chairs of Sculpture and Architecture should be established, and some provision made for instruction in Anatomy.

APPENDIX.

I. *List of Donations to the Library of Yale College from May 1, 1874, to June 15, 1875.*

	Volumes.	Pamphlets.
Aachen, die königliche polytechnische Schule,-----		2
James W. Adam,-----	1	
Prof. Alexander Agassiz,-----	22	8
Sir George Biddell Airy, <i>Astronomer Royal</i> , -----	1	
Rev. Simeon O. Allen, -----		1
American Assoc. for Advancement of Science,-----	2	
American Board of Commissioners for Foreign Missions, ---	1	
American Congregational Association,-----		1
American Congregational Library, -----		1
American Philosophical Society,-----		2
D. Appleton & Co., -----	1	
Astor Library, N. Y. City,-----		1
Athens, Greece, National Library, -----		2
Rev. Edward E. Atwater,-----	42	200
Rev. John G. Baird, -----	2	
Spencer F. Baird,-----	1	
Baltimore Mercantile Library Association,-----		2
Don Diego Barros Arana,-----	10	1
S. L. M. Barlow, -----		1
Hon. Wm. G. Bates, -----	1	
Robbins Battell,-----	1	
David N. Beach,-----		1
H. M. Benedict,-----	1	
J. H. Benham, -----	38	
Joseph E. Bennett,-----	1	
Berkeley Association, Yale College,-----	6	
Wilhelm Bethe, Ph.D.,-----		2
Prof. Wm. P. Blake,-----	1	
Boston Athenæum,-----	1	
Boston General Theological Library, -----		1
Boston Public Library,-----		6
W. Bragge,-----	2	
J. Carson Brevoort,-----	1	
British N. Amer. Boundary Commission,-----		1
Geo. C. Broadhead, -----	2	
Francis H. Brown, M. D.,-----		21
Henry Armitt Brown,-----		1
A. Buchan,-----		1
Albert H. Buck, M. D.,-----		1
C. E. Buckingham, M. D.,-----		1
Rev. Samuel G. Buckingham, D. D.,-----		1
Buffalo Society of Natural Sciences,-----		4
Buffalo Young Men's Christian Association,-----		2
Bunker Hill Monument Association, -----		1
Henry H. Bunnell,-----		1
Gen. Benj. F. Butler, -----		1
Hon. Wm. Butterfield, <i>Secretary of State of New Hampshire</i> , -	1	

	Volumes.	Pamphlets.
Canada Geol. Survey,	3	1
Cape of Good Hope Royal Observatory,	1	
Rev. Wm. B. Capron, 1 manuscript,		
Rev. Norman W. Cary,	1	
Hon. Daniel H. Chamberlain,		1
Rev. Frederick W. Chapman,	1	
Hiram B. Chapman,	1	
Chas. C. Chatfield, files of the College Courant, 1867-73,	21	517
Chicago Public Library,		1
Prof. John E. Clark,	2	
Cobden Club,	2	3
Columbia College, N. Y. City,	1	
James H. Cook,	1	
E. T. Cox,	1	
Rev. Oliver Crane, D. D., 1 manuscript,		
P. Cudmore,	1	
Hon. W. W. Curry,	1	
Edward S. Dana,		2
Prof. James D. Dana, 10 maps,	260	165
Charles C. Dawson,	1	
Prof. Geo. E. Day,	6	84
Henry Day,	1	
Miss Lucretia Deming,	155	
Gen. J. Watts De Peyster,	1	
Mrs. Richard W. Dickinson,	1	
Hon. Thomas A. Doyle, <i>Mayor of Prov., R. I.</i> ,	1	
F. W. Draper, M. D.,	1	
Prof. T. M. Drowne,	1	
Rev. John W. Dulles, D. D.,		1
E. F. Duren,		1
Edinburgh Geol. Society,		1
Edinburgh Royal Society,	4	
Edinburgh University,	1	
Henry R. Elliot,	2	
Emden Naturforschende Gesellschaft,		1
Hon. James E. English,	742	
Essex Institute, Salem, Mass.,	1	3
Evangelical Alliance,	1	
Henry Farnam,	386	
Rev. Wm. C. Fowler, LL.D.,	2	2
W. P. Garrison,		1
Pres. Daniel C. Gilman,	3	4
Rev. Edward W. Gilman, D. D.,	5	92
Theodore S. Gold,	20	1
John M. Gordon,		1
Samuel A. Green, M. D.,	12	221
C. A. Gulliver, Jr.,		4
Rev. Wm. A. Hallock, D. D.,	1	
Rev. Chas. Hammond,		1
Col. Geo. D. Harrington,	11	
John Harris,	14	1
Wm. T. Harris,	1	
Hartford Young Men's Institute,		1
Hon. J. F. Hartranft, <i>Gov. of Pennsylvania</i> ,	2	
Rev. Edwin F. Hatfield, D. D.,	1	
Alfred W. Hearn, M. D.,	1	
Rev. E. L. Heermance,	5	
Miss Isaphene Hillhouse,	2	
Charles J. Hoadly, <i>State Librarian of Conn.</i> ,	16	2
Levi Holbrook,	26	
Chas. F. Holden,	1	

	Volumes.	Pamphlets.
Henry Holt & Co.,	23	
Prof. James M. Hoppin,	15	
Rev. Henry L. Hubbell,	1	
Count Léopold Hugo,		4
Carleton Hunt,	2	
State of Illinois,	14	
Indianapolis Public Library,		1
Prof. John Johnston,	1	
Henry C. Kingsley,	3	
G. T. Kingston,		1
Mrs. Wm. A. Larned,	4	5
Hon. Elias W. Leavenworth,	1	
Hon. Henry G. Lewis, <i>Mayor of New Haven</i> ,	1	35
Prof. Elias Loomis,	1	
Prof. Thomas R. Lounsbury,	5	61
Prof. John M. Maisch,	1	
Col. Garrick Mallery, U. S. A.,	1	
Manchester, England, Free Public Libraries,		1
Mrs. Philip Maret,		18
Prof. O. C. Marsh,		5
State of Massachusetts,	12	7
State of Massachusetts Board of Health,	1	
A. Merwin,	5	
Mass. Horticultural Society,		2
Michigan Geol. Survey,	3	
Hon. J. D. Minor, <i>Secretary of State of Nevada</i> ,	1	
Montreal Natural History Society,		2
Geo. H. Moore,	1	
Rev. Wm. H. Moore,		2
New Haven Numismatic Society,		22
New Jersey Historical Society,		1
New York Chamber of Commerce,	7	
New York Mercantile Library Association,		1
New York State Library,	3	1
Prof. H. A. Newton,	3	300
Oberpfalz-und-Regensburg, Hist. Vercin,	2	
Ohio Historical and Philosophical Society,	1	
Ohio State Library,		1
Dwight H. Olmstead,	1	
Palermo, Società degli Spettroscopisti Italiani,		12
D. Williams Patterson,	1	
John Patton,	1	
Peabody Education Fund Trustees,	1	
Peabody Institute, Baltimore, Md.,		1
Peabody Museum, Peabody, Mass.,		1
Peabody Museum, Cambridge, Mass.,		1
Samuel C. Perkins,		1
John L. Peyton,	1	
Hon. Wm. Walter Phelps,		1
Philadelphia Acad. of Nat. Science,	1	2
Philadelphia Zoological Society,		1
Pres. N. Porter,	12	38
Presbyterian Board of Foreign Missions,	1	
Punderson & Crisand, 2 lithographs,		
Miss Eliza S. Quincy,	1	
Rev. A. H. Quint, D. D.,		1
Henry H. Ragan and Geo. D. Reed,		1
Geo. H. Richmond & Co.,	2	
Rev. Isaac Riley,	2	
Rev. Chas. Rockwell,	1	
D. B. St. John Roosa, M. D.,		1

	Volumes.	Pamphlets.
Georg Rosenthal,	2	
Royal Astronomical Society, London,	1	
Royal Geographical Society, London,	2	4
Hon. Samuel B. Ruggles,		1
St. Louis Acad. of Science,		1
St. Louis Mercantile Library,	1	
St. Petersburg Imperial Acad. of Sciences,		6
San Francisco Mercantile Library Association,		1
Prof. G. V. Schiaparelli,		2
Seventh-Day Adventist Tract Society,	1	
Hon. Origen S. Seymour,		4
J. Herbert Shedd,	1	
John Langdon Sibley,	1	
Mrs. H. H. W. Sigourney,		1
Prof. B. Silliman,	2	73
Chas. Perrin Smith,		2
J. Sumner Smith,	11	
R. A. Smith,		15
R. F. Smith,	1	
Mrs. Wm. Smith,	1	
Smithsonian Institution,	5	3
Society of Arts, London,	1	
State of South Carolina,	3	
Hon. Lewis H. Steiner, M. D.,		1
Henry Stevens, 1 manuscript,		1
Edward C. Stone,		1
R. L. & A. Stuart,	24	
James M. Sturdevant,	1	
Prof. Wm. G. Sumner,	8	
Rev. B. L. Swan,	13	
Rev. Benj. Talbot,		1
Rev. David Terry,	22	10
Prof. Thomas A. Thacher,	1	
Hon. A. G. Thurman,		1
Hon. J. Q. Thurston,		1
Capt. Charles H. Townsend,	3	1
Rev. David Trumbull, D. D.,	5	2
Alfred T. Turner,	7	
Thomas Twining,	1	
U. S. Army, Engineer Department, 6 maps,	7	7
“ Army, Surgeon General's Office,	3	1
“ Bureau of Education,	2	3
“ Bureau of Navigation,	1	3
“ Coast Survey,	3	1
“ Dep't of the Interior,	56	
“ Dep't of State,	1	
“ Dep't of the Treasury,	2	
“ Indian Bureau,	1	
“ Library of Congress,		1
“ Naval Observatory,	1	
“ Signal Service Bureau, daily weather maps,		
Prof. A. E. Verrill,	2	
Max von Versen,	1	
Prof. Francis A. Walker,	83	41
Hon. Joseph B. Walker,	1	
Rev. Israel P. Warren, D. D.,	1	
Sereno Watson,		1
Rev. Francis Wharton, LL.D.,	4	
Prof. Albert S. Wheeler,	2	
Moses C. White, M. D., 1 manuscript,		2
Prof. Wm. D. Whitney,	1	

	Volumes.	Pamphlets.
Rev. Samuel G. Willard, -----		1
Rev. Moseley H. Williams, -----	1	
Cyrus Woodman, -----	2	
Rev. T. D. Woolsey, D. D., -----	53	
Worcester, Mass., Free Public Library, -----		1
Elizur Wright, -----	3	
Yale Divinity School (doposited), -----	15	

Also, from the Editors, complete files for the year of the following periodicals:

Advocate of Peace.	Medical Record.
Amer. Journal of Numismatics,	New York Evening Post, Semi-Weekly.
Annali di Matematica (Milan).	New York Observer.
Arcadian.	New York Spectator.
Oneida Circular.	Our Dumb Animals.
College Courant.	Owl.
Dexter Smith's Paper.	Peters' Musical Monthly.
Dwight's Journal of Music.	Plymouth Pulpit.
Folio.	Presbyterian Monthly Record.
Foreign Missionary.	Trübner's Literary Record.
Home Missionary.	Western.
Industrial Bulletin.	Yale Courant.
Journal of Education (Toronto).	Yale Literary Magazine.
Journal of Speculative Philosophy.	Yale Record.

II. Donations to the Geological and Osteological Museum.

- Philadelphia Academy of Natural Science*.—Cast of *Titanotherium Proutii*.
Maj. A. S. Burt, U. S. A., and Lieut. W. L. Carpenter, U. S. A..—Interesting Tertiary fossils from Nebraska.
Cream Ridge Marl Co., received through *J. G. Miers*, Hornerstown, N. J.—Cretaceous fossils.
Prof. H. A. Newton.—Palæozoic fossils from near Natural Bridge, Va.
A. C. Hamlin, Bangor, Me.—Fossil bones from Brewer, Me.
S. H. Hurd, New York.—Young polar bear from Barnum's Hippodrome.
Pemberton Marl Co., received through *J. C. Gaskill*, Birmingham, N. J.—Cretaceous fossils.
West Jersey Marl Co., received through *J. C. Voorhies*, Barnsboro, N. J.—Cretaceous fossils.
Capt. E. L. Berthoud, Golden City, Col.—Cretaceous fossils from Colorado.
Prof. O. C. Marsh.—Skeleton of mastodon, Otisville, N. Y.; vertebrate fossils, mostly Tertiary, from the West; Carboniferous fossils from Illinois; Devonian from Ohio, and several hundred foreign fossils from various localities.
Expedition to the Black Hills—*General Custer*, received through *G. B. Grinnell*, Palæontologist.—Dinosaurian remains and invertebrate fossils.
G. B. Grinnell (Y. C. 1870).—Skeletons of many mammals and birds.
J. Wallace, New York.—Head of deformed calf.
Maginley & Co..—Skeleton of *Nasua rufus*.
T. F. Rowland, Greenpoint, L. I.—Skeletons of Shetland pony and five-toed dorking fowl.
W. F. Parker, Meriden, Conn.—Horned toads from Texas.
Prof. O. C. Marsh.—Skeleton of elephant and several hundred prepared skulls and skeletons of mammals, birds and reptiles, mostly foreign.
Prof. W. P. Trowbridge.—Skeleton of puffing adder.
F. H. Hoadley (Y. C. 1870).—Skeletons of mammals, birds and reptiles.
A. E. Walker (S. S. '76).—Skeleton *Ophibolus eximius*.

- Prof. A. E. Verrill*.—Skeletons of terrapin and of bats, etc.
T. G. Evans (Y. C. 1874).—Two large black snakes.
Capt. C. H. Townsend, New Haven.—Skeletons of turtles, South Atlantic, shark vertebrae from Pacific, etc.
T. A. Bostwick.—Skeletons of mammals, birds and reptiles.
E. B. Barber.—Horned toad with eggs, from Texas.
C. H. Hamlin (Y. C. Theol.).—Skeleton of black snake.
Dr. T. H. Russell (Y. C. Sci. Ex. 1872).—Prairie dog from Cheyenne, Wyoming.
Prof. C. U. Shepard, Jr., Charleston, S. C.—Amphiuma and water rattle from South Carolina.
Capt. J. M. Dow, New York.—Living lizard from the Island of Navassa, Caribbean Sea.
Dr. W. H. Hotchkiss, New Haven.—Wood duck and other birds and mammals, mostly from Branford, Conn.
Charles McLinn.—Skeleton of grebe.
S. M. Granniss, Branford, Conn.—Barred owl.
Richard Eltzner, New Haven.—Screech owl and fox.
Frank Chamberlain (Y. C. 1876).—Two black rats.
J. P. Stocum, Branford, Conn.—Skeletons of lynx and otters.
William Schaeffler, New Haven.—Swamp sparrow.
A. H. Alverson, New Haven.—Thirteen-lined gopher from Wisconsin.
William Beers, Branford, Conn.—Great northern diver.
Dr. Hall, Branford, Conn.—Great northern diver.
Capt. O. N. Brooks, Faulkner's Island.—Skeleton of seal.
G. B. Goode, Middletown, Conn.—Skull of *Geomys pinetis*, Florida.
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III. Donations to the Museum of Archæology and Ethnology.

- Rev. E. F. Rockwell* (Y. C. 1834), Slatesville, N. C.—Arrow heads and stone implements.
Gen. J. F. Miller.—Mummy from cave in Aleutian Islands.
J. F. Snyder, Virginia, Ills.—Flint implements, banks of Illinois River.
Prof. O. C. Marsh.—Indian pipes, stone axes, flint arrow heads and other implements from Oregon, Utah, Dakota, and other parts of America, and from Europe.
William French, Campania, Chili.—Casts of stone hammers from Chili.
R. P. Stephens, Estelle County, Ky.—Arrow-head containing fossil bryozoa.
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IV. Donations to the Numismatic Cabinet.

- Dr. Francis Bacon*.—Two silver coins.
Prof. Fisk P. Brewer.—Eight specimens of paper money of the State of North Carolina.
Rev. Oliver Crane, D.D.—92 Greek coins, of which three are silver, 358 Roman (one gold and one silver), 33 Oriental coins, one English token.
Mrs. Prof. Larned.—23 specimens of Connecticut paper money.
Frederick S. Smith.—One copper coin of Chili.
Walter P. Tilman, Esq.—Three Japanese silver coins.
Rev. E. F. Rockwell, D.D.—14 specimens of paper money, of which six are Continental, four are Confederate and four of the State of North Carolina.